

WHAT IS CLAIMED IS:

5 1. An optical apparatus having a drive circuit
for receiving speed data communicated from a unit which
sends the speed data representing speed information and
controlling, on the basis of the information, the speed
of a moving member which moves within a predetermined
range, comprising

10 a determination circuit which determines a driving
speed on the basis of position data, the speed data,
and a value representing an actual range of the
predetermined range, the position data defining the
predetermined range as a predetermined number different
from a value indicating the actual range and
15 representing the predetermined number as another value
in accordance with a time required to move the moving
member within the predetermined range wherein, the
drive circuit drives the moving member at the driving
speed determined by said determination circuit.

20 2. An apparatus according to claim 1, wherein
said determination circuit determines the speed in
accordance with a ratio of the value representing the
actual range and the position data, and a value
obtained by multiplying the speed data with the ratio.

25 3. An optical apparatus having a drive circuit
for receiving speed data communicated from a unit which

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sends the speed data representing speed information and controlling, on the basis of the information, the speed of a moving member which moves within a predetermined range, comprising

5 a determination circuit which determines a driving speed on the basis of the speed data and position data representing the predetermined range as a predetermined number; and

10 a changing circuit which changes the number of position data representing the predetermined range as the predetermined number, in accordance with time information required to move the moving member within the predetermined range, wherein the drive circuit drives the moving member at a speed determined by said
15 determination circuit.

4. An optical apparatus having a drive circuit for receiving speed data communicated from a unit which sends the speed data representing speed information and
20 controlling, on the basis of the information, the speed of a moving member which moves within a predetermined range, comprising

25 a determination circuit which determines a driving speed on the basis of position data and the speed data, the position data representing the predetermined range as a predetermined number and the number as another value in accordance with a time for moving the moving

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member within the predetermined range, wherein the drive circuit drives the moving member at a speed determined by said determination circuit.

5 5. An apparatus according to claim 4, wherein the speed data represents a moving amount per unit time as a step number.

10 6. An apparatus according to claim 5, wherein the position data represents the predetermined range as a step number.

15 7. An apparatus according to claim 4, wherein said determination circuit determines the speed in accordance with a ratio of the speed data and position data.

20 8. An optical unit having a moving member moving within a predetermined range and a drive circuit for controlling a speed of the moving member, comprising
a determination circuit which determines a speed of the moving member on the basis of position data representing the predetermined range as a predetermined step number and speed data representing a moving amount
25 per unit time as the step number,

wherein the step number of the position data representing the predetermined range is changed in

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accordance with a speed control state.

9. A unit according to claim 8, wherein the step
number of the position data is changed in accordance
5 with time information required to move the moving
member within the predetermined range.

10. A unit according to claim 8, wherein the step
number of the position data is so changed as to make a
10 changing ratio of the speed of the moving member fall
within a predetermined range with respect to a minimum
change in speed data.

11. A unit according to claim 10, wherein the step
15 number of the position data is changed in accordance
with time information required to move the moving
member within the predetermined range.

12. A unit according to claim 8, wherein said
20 determination circuit determines the speed in
accordance with a ratio of speed data and position
data.

13. An optical unit having a moving member moving
25 within a predetermined range and a drive circuit for
controlling a speed of the moving member, comprising:
a speed control circuit which determines a speed

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of the moving member on the basis of position data representing the predetermined range as a predetermined step number and speed data representing a moving amount per unit time as the step number; and

5 a communication unit which communicates the position data from an apparatus connected to said optical unit to said optical unit.

10 14. A unit according to claim 13, wherein the step number of the position data changes in accordance with time information required to move the moving member within the predetermined range.

15 15. A unit according to claim 14, wherein the step number of the position data is so set as to fall a changing ratio of the speed of the moving member within a predetermined range with respect to a minimum change in speed data.

20 16. A unit according to claim 13, wherein said speed control circuit determines the speed in accordance with a ratio of speed data and position data.

25 17. A unit according to claim 13, wherein the speed data is communicated from the apparatus.

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18. A unit according to claim 13, wherein said optical unit comprises a lens unit, and the apparatus comprises a camera.

5 19. An optical unit having a moving member moving within a predetermined range and a drive circuit for controlling a speed of the moving member, comprising
a determination circuit which determines a speed
of the moving member on the basis of position data
10 representing the predetermined range as a predetermined step number and speed data representing a moving amount per unit time as the step number,

wherein the drive circuit drives the moving member at a speed determined by said determination circuit.

15 20. A unit according to claim 19, wherein the speed data is communicated from an apparatus connected to said optical unit.

20 21. A unit according to claim 20, wherein said optical unit comprises a lens unit, and the apparatus comprises a camera.

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